

Vortragsankündigung

Mittwoch, 31. Oktober 2018, 11 c.t.

Seminarraum I (JAK2AOG1.33), Jakob-Haringer-Straße 2a

Dr. Martin Fischlechner

SPOC Laboratory (University of Salzburg)

“The SPOC-Lab – a place to make almost any (small) thing. Salzburg University’s nascent microfluidics facility”

Microfluidics, which is all about processing small volumes of fluids in microstructured channel systems, increasingly becomes a technological enabler for powerful workflows in the bio- as well as the materials sciences. The University of Salzburg (Lead Prof. Günter Lepperdinger) now also has a laboratory located in Anif, where microfluidic chips can be developed. The facility in addition offers a fine collection of digital fabrication tools which allows to craft all kinds of ‘science helpers’, from simple fixtures to bespoke optics rigs and more.

The talk will introduce the facility, discuss its potential, and highlight how microfluidics can be used for biotechnological applications and the fabrication of functional materials.

Biosketch: Martin Fischlechner studied Food- and Biotechnology at the BOKU Vienna, and did his PhD with Prof. Edwin Donath at the University of Leipzig, developing functional materials based on viruses as nanoscale building blocks. He then learned Droplet Microfluidics in the Group of Prof. Chris Abell (Department of Chemistry, Cambridge, UK), and as Marie Curie Fellow in the lab of Prof. Florian Hollfelder (Department of Biochemistry, Cambridge) developed microfluidics-based ultra-high throughput screening methodologies for the directed evolution of enzymes. From 2012 to 2017 he worked as independent PI at the University of Southampton in its newly established ‘Center for Hybrid Biodevices’, an interdisciplinary facility with the mission to develop new technologies for the life sciences. Since brexiting with his family in 2017, he tries to find himself a new technological home and worked small projects with several institutions in the country. He currently takes care of the SPOC-Lab and establishes the collection of methods necessary to render the facility operational.

Contact:

Prof. Günter Lepperdinger [guenter.lepperdinger@sbg.ac.at]

Martin Fischlechner [mfischlechner@gmail.com]